Technical Architecture: Text Summarization Project using FastAPI

# Introduction

The project is designed to implement a Text Summarization application using FastAPI. The app utilizes Google Gemini's API to process and summarize input text. The system receives a text input through a request and returns the summarized version of that text.

# System Components

1. **FastAPI**: The web framework used to develop and expose the API for text summarization.  
2. **Requests**: A library used to make HTTP requests to the Gemini API for text summarization.  
3. **Gemini API**: The external API (Google Gemini) used to process and generate summaries for the input text.  
4. **VS Code**: Integrated development environment used for writing, testing, and running the code.

# Technical Architecture

The architecture of the system follows a client-server model, where the client sends a request to the FastAPI server. The server processes the request, interacts with the Gemini API for text summarization, and sends back the summarized text to the client.

## System Flow

1. Client Request: The user sends a request to the `/summarize-text` endpoint, providing text that needs to be summarized.  
2. FastAPI Server: FastAPI receives the request, processes it, and prepares the data in the expected format for the Gemini API.  
3. Gemini API: The FastAPI server sends the request to Gemini's external API, which returns a summary of the text.  
4. Server Response: The FastAPI server sends the summarized text back to the client.